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## The $sl(n)$ polynomials for strongly invertible links

*Wednesday, 24 September 2025 14:00 (1 hour)*

Strongly invertible links are collections of disjoint oriented circles in the tri-dimensional space together with an involution preserving the components and reversing the orientation. In this talk we will introduce a family of invariants of strongly invertible links which are analogues of the  $sl(n)$  polynomials for links; in particular, they are Laurent polynomials in the variable  $q$  and are parameterised by a positive natural number. After a brief discussion on the effectiveness of these invariants, we will give a characterisation of them in terms of skein relations. We will conclude with some applications and a comparison with other known invariants of strongly invertible links.

**Primary author:** Dr COLLARI, Carlo (Università di Pisa)

**Presenter:** Dr COLLARI, Carlo (Università di Pisa)